



# Nassau County Engineer

2290 SOUTH 8th STREET  
FERNANDINA BEACH, FL 32034-3056

WILLIAM LECHER, P.E.  
COUNTY ENGINEER

## MEMORANDUM

**TO:** JOANNA CASON, DEPUTY CLERK  
**FROM:** JOHN H. MEIER, E.I.T.  
**DATE:** NOVEMBER 6, 1989  
**RE:** SOIL BORINGS FOR ADDITION TO  
NASSAU COUNTY DETENTION FACILITY

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A copy of the signed proposal by Ellis & Associates to perform soil borings for the addition to the Nassau County Detention Facility is enclosed with this memorandum for your information.

If you have any questions feel free to contact me.



# Ellis & Associates, Inc.

A GREG A. EDMONDS COMPANY

GEOTECHNICAL ENGINEERING  
CONSTRUCTION MATERIALS TESTING

P.O. Box 8813  
Jacksonville, FL 32239  
(904) 733-0960  
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OFFICE LOCATION  
5109 Stepp Avenue  
Jacksonville, FL 32216

September 22, 1989

Nassau County Engineer  
2290 South 8th Street  
Fernandina Beach, Florida 32034-3056

Attention: Mr. John H. Meier, E.I.T.  
Senior Civil Engineer

Subject: Proposal for a Geotechnical Exploration  
and Engineering Services  
Addition to County Jail  
Nassau County, Florida  
E&A Proposal No. 89-0191

Gentlemen:

Ellis & Associates, Inc. is pleased to provide this proposal to perform the geotechnical exploration and engineering services for the subject project.

## PROJECT INFORMATION

Based upon our telephone conversations and your transmittal dated September 19, 1989, it is understood that a one-story wood-frame addition will be constructed adjacent to the existing county jail on State Road A1A near Yulee, Florida. The exterior of the structure will consist of CMU walls and the interior will consist of wood partition walls. Based on the topographic information indicated on the provided plan, it is estimated that approximately 5.0 feet of elevating fill will be required for the building addition. We have been provided with a drawing titled Police Administration Extension Plan last dated August 24, 1989. This plan indicates the layout of the proposed addition to the existing jail.

## PROPOSED GEOTECHNICAL EXPLORATION

The objective of this geotechnical exploration is to provide sufficient site and subsurface information to evaluate the subsurface conditions at the site for the proposed construction.

It is proposed to perform three penetration test borings drilled to depths of approximately 20.0 feet below the existing ground surface. It is proposed to perform one boring adjacent to the existing structure and the remaining two borings at the opposite corners furthest from the existing structure. Laboratory classification and index property tests will be performed as necessary on selected soil samples obtained from the exploration. The testing will be performed to



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better define the materials encountered in the exploration to determine their suitability for use in the proposed construction.

A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide an engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction and imposed loading conditions. The results of the exploration and engineering study will be presented in a report containing the following:

1. A brief discussion of our understanding of the planned construction and imposed loading conditions.
2. A presentation of the field and laboratory test procedures used and the data obtained.
3. A presentation of the existing on-site conditions, such as topography, surface vegetation, etc. as they relate to the planned construction.
4. A presentation of the subsurface conditions, including subsurface profiles, and estimated geotechnical engineering properties (as necessary)....
5. A geotechnical engineering evaluation of the site and subsurface conditions with respect to the planned construction.
6. Recommendations for foundation design parameters, including our estimate of the performance of the foundation system.
7. Recommendations for the required site preparation and earthwork construction.

## COMPENSATION FOR SERVICES

Based on the scope of the geotechnical exploration, the proposed laboratory investigation, and the engineering services outlined above, we propose to complete the geotechnical exploration and engineering services for a lump sum fee of \$1,000.00. We will contact you immediately if we encounter subsurface conditions which could require (1) the borings to be performed to deeper depths, (2) additional borings or other field testing, and/or (3) additional engineering analysis/evaluation and studies outside the scope of this proposal. Attached is the Fee Schedule (Attachment A) with the applicable unit rates for this project.

## SCHEDULING AND AUTHORIZATION

We can initiate our geotechnical exploration within one week after receiving notice to proceed. A returned copy of this proposal, dated and signed by the responsible party to authorize the work, will formally authorize the proposed geotechnical exploration. As soon as all field and laboratory tests have been



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completed and reviewed by the geotechnical engineer, verbal results and recommendations can be provided. The written report should then be available within two weeks after completion of all field and laboratory testing.

We appreciate this opportunity to provide this proposal to perform the geotechnical exploration for this project. If you have any questions concerning this proposal or if we can serve you in any other way, please contact either me or Mr. Greg Edmonds at our office.

Very truly yours,

**ELLIS & ASSOCIATES, INC.**

Michael Lithman, P.E.  
Engineering Manager

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

ML/bim

ATTEST:

BOARD OF COUNTY COMMISSIONERS, NASSAU CO.

J. Hession 10/16/89  
Title Date

By: Jimmy J. Hession 10-17-89  
Its: Chairman Date



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## FEE SCHEDULE

Attachment A

Geotechnical Exploration and Engineering Services  
Addition to County Jail  
Nassau County, Florida  
E&A Proposal No. 89-0191

	<u>Unit Rate</u>
<b>I. <u>FIELD EXPLORATION</u></b>	
A. Mobilization and Demobilization of Drill Crew and Truck-Mounted Drill Equipment, Lump Sum	\$200.00
B. Penetration Test Borings (ASTM D 1586)	\$ 6.50/L.F.
C. Auger Borings (ASTM D 1452)	
1. Manual (maximum depth of 6.0 Feet)	\$ 6.00/L.F.
2. Using Truck-Mounted Equipment	\$ 4.50/L.F.
D. Boring-Layout and-Difficult Moving	\$ 60.00/Hour
<b>II. <u>LABORATORY TESTING</u></b>	
A. Natural Moisture Content (ASTM D 2216)	\$ 5.00/Test
B. Percent Fines Content (ASTM D 1140)	\$ 10.00/Test
C. Percent Fines Content with Natural Moisture Content (test on same sample)	\$ 12.00/Test
D. Percent Organic Material Content (ASTM D 2974)	\$ 5.00/Test
E. Atterberg Limits (Liquid Limits and Plastic Limits, ASTM D 4318)	\$ 40.00/Test
<b>III. <u>ENGINEERING SERVICES</u></b>	
For planning, coordinating and directing the geotechnical exploration, site inspection, samples review, analysis/evaluation of test data, report preparation, and client consultation	
A. Sr. Geotechnical Engineering Technician	\$ 30.00/Hour
B. Geotechnical Engineer, P.E.	\$ 40.00/Hour
C. Sr. Geotechnical Engineer, P.E.	\$ 60.00/Hour
D. Drafting and Clerical	\$ 25.00/Hour